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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,391	03/16/2004	Woonhee Hwang	944-003.207	3686
4955 7590 07/25/2007 WARE FRESSOLA VAN DER SLUYS &			EXAMINER	
ADOLPHSON, LLP			VU, MICHAEL T	
	BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224		ART UNIT	PAPER NUMBER
MONROE, CT	06468		2617	
			MAIL DATE	DELIVERY MODE
			07/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/802,391	HWANG ET AL.			
		Examiner	Art Unit			
		Michael Vu	2617			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY SHEVER IS LONGER, FROM THE MAILING DATE is is a soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Ju	<u>ine 2007</u> .	•			
2a)⊠	This action is <b>FINAL</b> . 2b) This	action is non-final.				
3)[	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims	·				
5)□ 6)⊠ 7)□	Claim(s) <u>1-49</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdray  Claim(s) is/are allowed.  Claim(s) <u>1-49</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the other parts of the contraction of the contracti	epted or b) objected to by the lddrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

## **DETAILED ACTION**

## Response to Arguments

1. Applicant's Remarks/Arguments filed June 14, 2007, have been fully considered but they are not persuasive.

On page 16 of Applicant's Remarks, Applicant argues that "Lee does not disclose or discuss an uplink from user equipment to the network element, and Lee does not show an RNC, furthermore, there is no hint or suggestion in Lee to send parameters to or from the RNC.

In response, the examiner has been carefully reviewed the Applicant's Remark. Lee indeed clearly disclosed an uplink portable device and/or user equipment (UE) #304 reaches a plurality of active Node Bs (Base Stations #301, #302, and #303), those base stations transmit the received packet data to the Radio Network Controller (RNC) #305, if the packet data has errors, the Node Bs #301, #302 and #303 request the UE #304 to retransmit the packet data. Since the RNC #305 receives the same data from a plurality of Node Bs, it can ensure a required packet data reception performance for minimizing the uplink transmission power of the UE #304 (See Figure #3, and paragraphs [0011-0013]).

Furthermore, Nishimura teaches an uplink from a mobile terminal transmits data to the immediate nodes B1-B8 (e.g. base stations), base stations transmit the received packet data to the Radio Network Controller (RNC) (See paragraphs [0050-0055]).

Therefore, the argued limitations are the same as disclosed by the reference or the limitations are written broad such that they read on the cited art, rejections are maintained as repeated below:

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 9-11, 16-23, 47, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US 2004/0192308) in view of Nishimura (US 2004/0229649).

Regarding **claim 1**, Lee teaches a method of configuring a radio uplink, comprising: sending information having a cell specific parameter (Fig. 1, Mobile stations/User Equipment #112, 114, 116, 118 to Base Station/Node B #110), a radio link specific parameter (Fig. 1) [0006-0008]), or both in **one or more** messages on an interface between a network element and a radio network controller for configuring the

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radio uplink (Figs. 4-10, [0057-0072]), configuring the radio uplink at the network element [0020-0026],

But Lee does not clearly teach on sending a payload packet from the user equipment to the network element over the radio uplink after the uplink is configured at the network element and sending the payload packet to the radio network controller.

However, Nishimura teaches sending a data/payload from mobile device via base station to the radio network controller over the radio uplink [0065, 0085], and Figure #1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lee, such that sending a payload packet from the user equipment to the network element over the radio uplink after the uplink is configured at the network element and sending the payload packet to the radio network controller, to optimize the performance of handover without causing loss of data.

Regarding claim 2, Lee/Nishimura teach the method of claim 1, further comprising: acknowledging correct reception of the payload packet at the network element on a radio downlink from the network element to the user equipment, and sending the payload packet from the network element to the radio network controller following said correct reception from the user equipment (Figures #2, and #5, [0017-0019]) of Lee.

Regarding claims 3, Lee/Nishimura teach the method of claim 1, further comprising sending the information on an interface between the radio network controller

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and another radio network controller for relay to another network element for configuring an uplink between the other network element and the user equipment (Figs. #4-10, [0052-0072]) of Lee.

Regarding claim 16, Lee/Nishimura teach the method of claim 1 wherein prior to said step of sending said information element on said interface between said network element and said radio network controller, said radio network controller decides a value for said cell specific parameter or said radio link specific parameter, or both, for said sending said information element with said cell specific parameter and said radio link specific parameter in said one or more messages on said interface from said radio network controller to said network element (Figs. #4-10, [0052-0072]) of Lee.

Regarding **claim 17**, Lee/Nishimura teach the method of claim 1, wherein said step of sending by said radio network controller includes sending at least one parameter to said network element indicative of boundaries within which choices may be made by said network element (Figs. 4-10, [0052-0072]) of Lee.

Regarding **claim 18**, the combination of Lee/Nishimura teach the method of claim 1, wherein said radio network controller is responsive to signaling from said network element with a proposed value or values for said cell specific parameter, said radio link specific parameter, or both, and said radio network controller carries out said step of sending said information element either confirming or changing said proposed value or values (Figs. 4-10, [0052-0072]) of Lee.

Regarding **claim 46**, Lee/Nishimura teach the method of claim 1, wherein the information has both a cell specific parameter and a radio link specific parameter in the

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messages respectively Regarding **claim 46**, Kim teaches the method of claim 1, wherein the information has both a cell specific parameter and a radio link specific parameter in the messages respectively (Figs. 1-2, [0002-0009]).

Regarding **claims 4**, **9-11**, **and 48**, Lee teaches the A mobile telecommunications system (Fig. #3), comprising: a network element (Fig. #1) and a radio network controller (Fig. #4, RNC #305) connected by a signaling interface arrange to configure a radio uplink from a user equipment to the network element (Figs. #1-10), the interface being configured to convey messages having information elements containing parameters wherein information having a cell specific parameter (Figs. #1-10, [0005-0072]), a radio link specific parameter [0005-0072], or both is conveyable in one or more messages on the interface between the network element and the radio network controller for said configuring the radio uplink at the network element (Figs. 1-10, [0005-0072]),

But Lee does not clearly teach on wherein a payload packet is sent from the user equipment to the network element over the radio uplink after the uplink is configured at the user equipment for sending the payload packet to the radio network controller.

However, Nishimura teaches sending a data/payload from mobile device via base station to the radio network controller over the radio uplink [0065, 0085], and Figure #1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lee, such that wherein a payload packet is sent

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from the user equipment to the network element over the radio uplink after the uplink is configured at the user equipment for sending the payload packet to the radio network controller, to optimize the performance of handover without causing loss of data.

Regarding **claim 5**, Lee/Nishimura teach the system of claim 4, further characterized in that reception of the payload packet is acknowledged by the network element on a radio downlink from the network element to the user equipment, and that the payload packet is sent from the network element to the radio network controller following reception from the user equipment (Figs. 1-3, [0007-0055]) of Nishimura.

Regarding **claim 6**, the combination of Lee/Nishimura teach the system of claim 5, further characterized in that the information element is sent on an interface between the radio network controller and another radio network controller for relay to another network element (Figs. 1-3, [0007-0055]) of Nishimura.

Regarding claim 19, Lee/Nishimura teach the mobile telecommunications system of claim 4, wherein said configuring the uplink between the other network element and the user equipment comprises configuring the uplink between the other network element and the user equipment followed by sending the payload packet from the user equipment to the other network element over the radio uplink between the user equipment and the other network element for sending the payload packet to the radio network controller (Figs. 1-10, [0005-0072]) of Lee.

Regarding claim 20, the combination of Lee/Nishimura teach the mobile telecommunications system of claim 19, further characterized in that correct reception of the payload packet at the network element is acknowledged on a radio downlink from

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the network element to the user equipment, and correct reception of the payload packet at the other network element is acknowledged on a radio downlink from the other network element to the user equipment (Figs. 1-3, [0007-0055]) of Nishimura.

Regarding **claim 21**, Lee/Nishimura teach the mobile telecommunications system of claim 4, wherein the radio network controller decides a value for said cell specific parameter or said radio link specific parameter, or both, prior to said information element being conveyed on said interface between the network element and the radio network controller (Figs. 1-3, [0007-0055]) of Nishimura.

Regarding **claim 22**, Lee/Nishimura teach the mobile telecommunications system of claim 4, characterized in that said radio network controller is arranged to send at least one parameter to the network element indicative of boundaries within which choices may be made by said network element for said configuring said radio uplink (Figs. 1-10, [0005-0072]) of Lee.

Regarding **claim 23**, the combination of Lee/Nishimura teach the mobile telecommunications system of claim 4, characterized in that said radio network controller is responsive to signaling from said network element within proposed value or values for said cell specific parameter, said radio link parameter, or both, and said radio network controller conveys said one or more messages either confirming or changing said proposed value or values (Figs.1-10, [0005-0072]) of Lee.

Regarding **claim 47**, Lee/Nishimura teach the network element of claim 10, further comprising: wherein the network element is further arranged to acknowledge correct reception of the payload packet at the network element, on a radio downlink

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from the network element to the user equipment, and wherein the network element is further arranged to send the payload packet from the network element to the radio network controller following said correct reception from the user equipment (Figs. 1-3, [0007-0055]) of Nishimura.

Regarding **claim 49**, Lee/Nishimura teach the network element of claim 48, further comprising: means for acknowledging correct reception of the payload packet at the network element, on a radio downlink from the network element to the user equipment, and means for sending the payload packet from the network element to the radio network controller following said correct reception from the user equipment (Figs. 1-3, [0007-0055]) of Nishimura.

## Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Vu whose telephone number is (571) 272-8131.

The examiner can normally be reached on 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Michael T. Vu

Examiner

SUPERVISORY PATENT EXAMINER